

FIG. 1

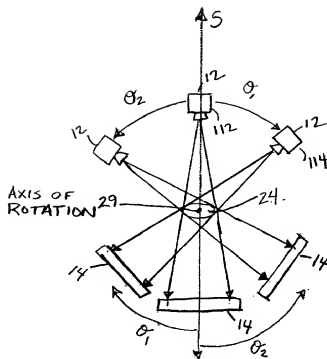


FIG. 2

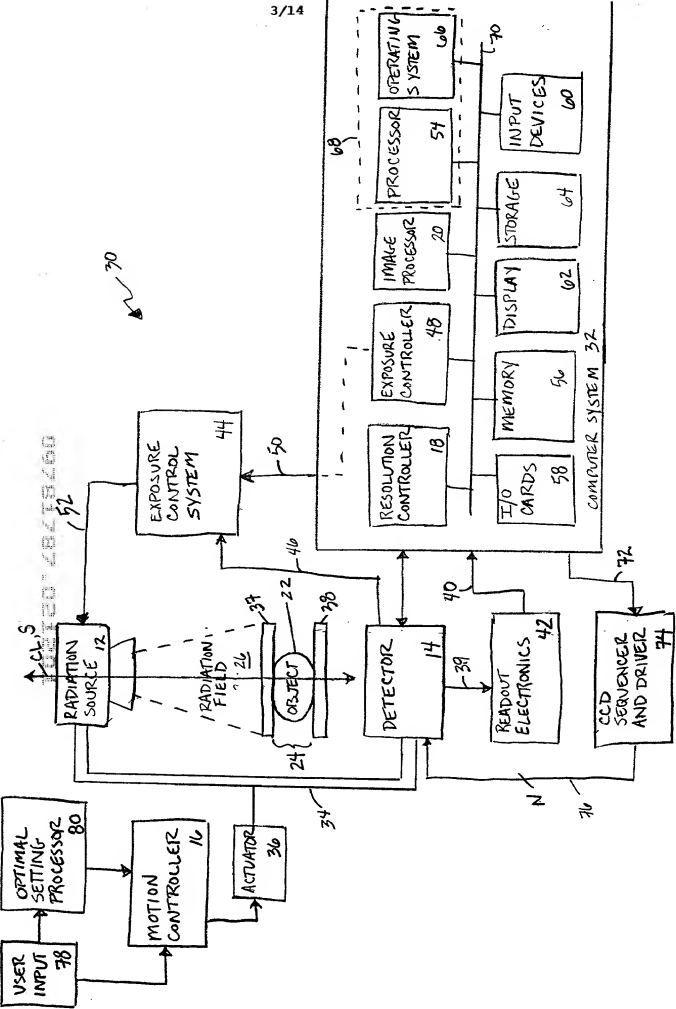


FIG. 3

100120-4478260

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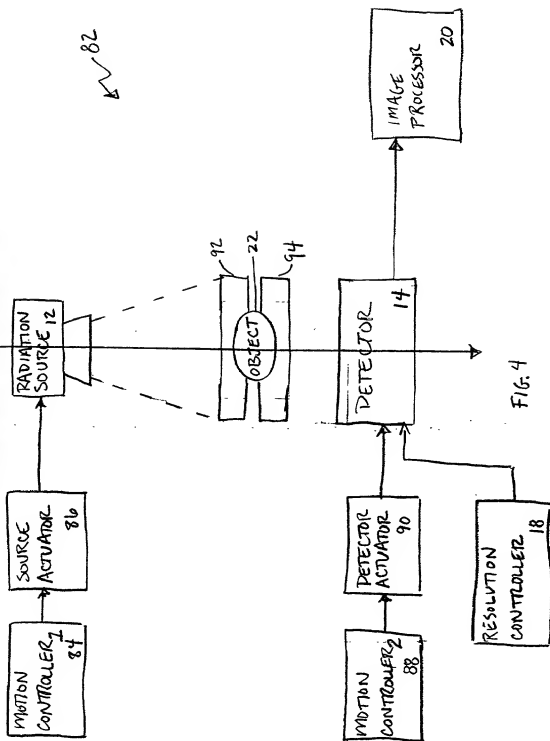


FIG. 4

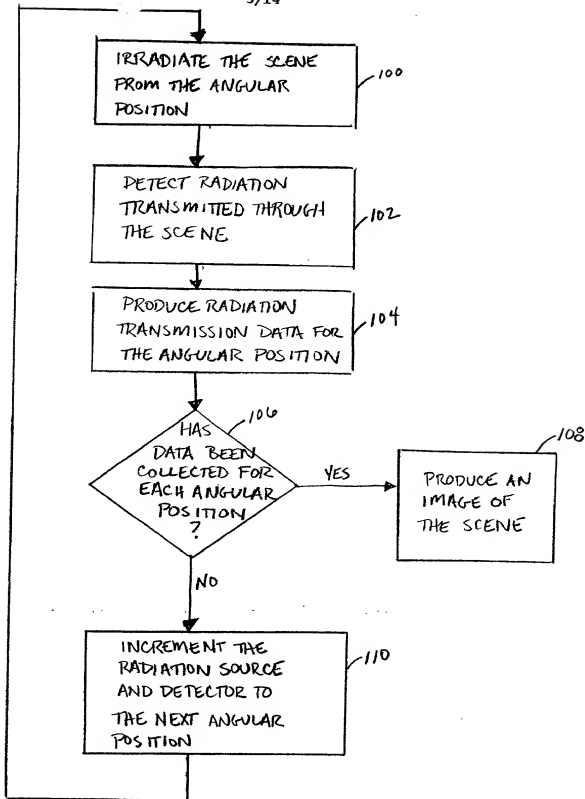


FIG. 5

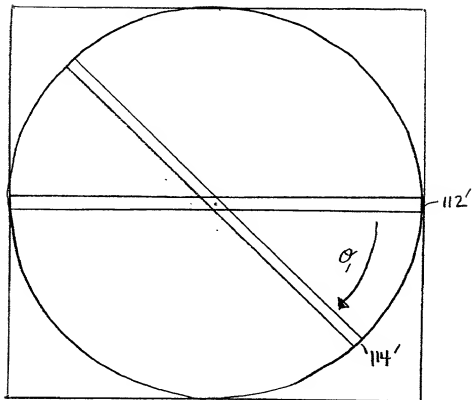


FIG. 6

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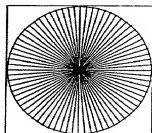


FIG. 7A

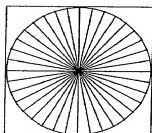


FIG. 7B

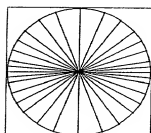


FIG. 7C

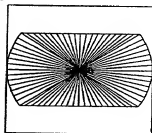


FIG. 7D

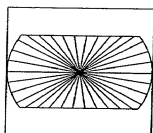


FIG. 7E

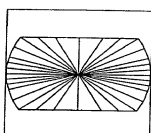


FIG. 7F

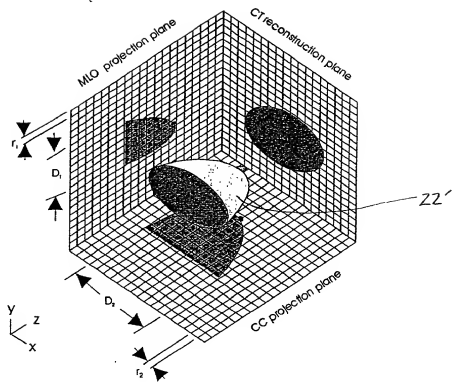


FIG. 8A

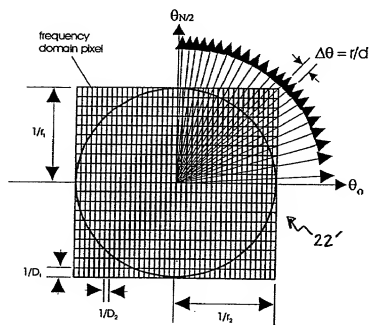


FIG. 8B

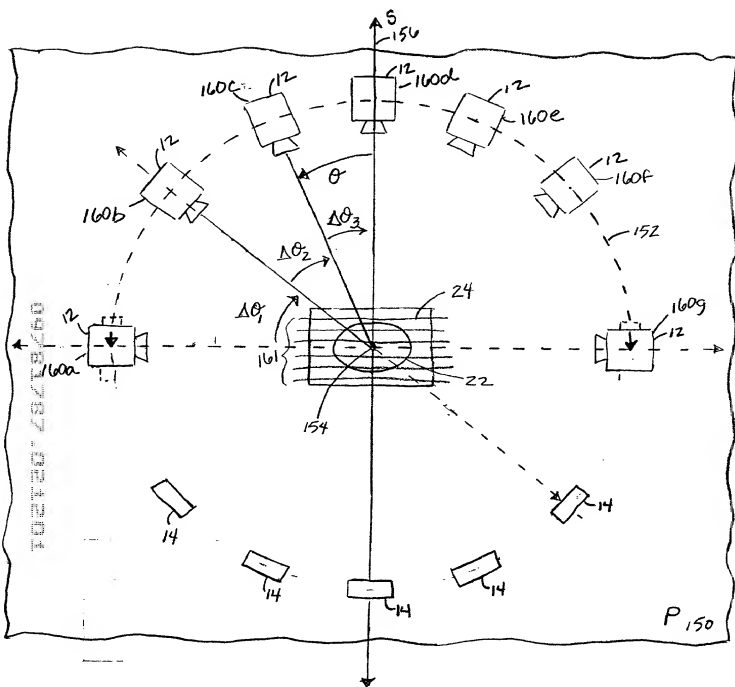
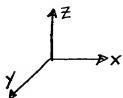


FIG. 9.



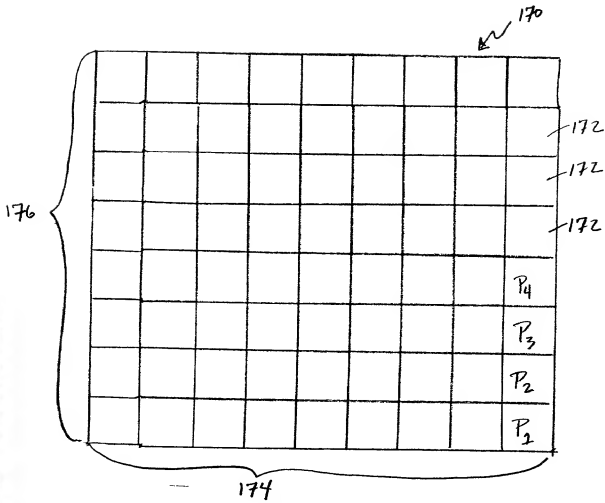


FIG. 10

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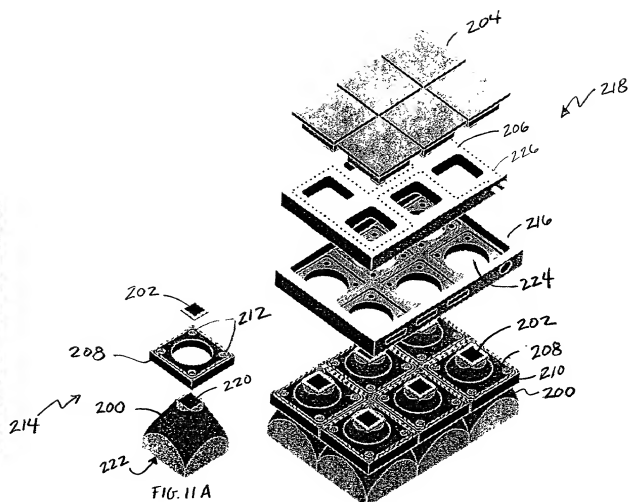


FIG. 11B

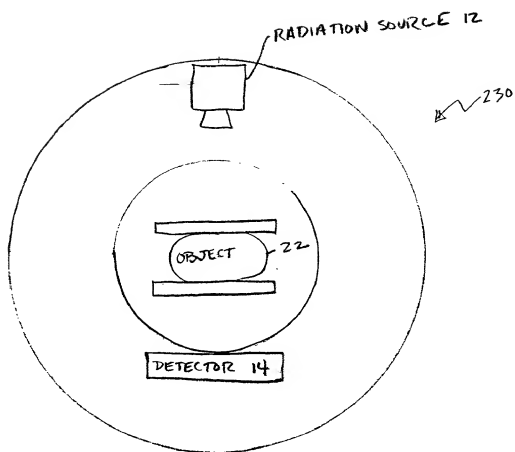


FIG. 12

LOAD RADIATION TRANSMISSION DATA 250

CREATE TRANSMISSION PROJECTION IMAGES 252

LOAD GEOMETRY AND META INFORMATION 254

LOG-AND INVERT TRANSMISSION PROJECTION
IMAGES TO FORM OPD IMAGES 256LIMIT INTENSITY RANGE OF OPD IMAGES TO
CORRESPOND TO POSSIBLE TISSUE DENSITIES 258

LIMIT SPATIAL BOUNDARIES OF OPD IMAGES 260

USING
BINNED
IMAGES?
262

YES

EXPAND TO FULL
RESOLUTION 264

NO

BACK-PROJECT OPD IMAGES TO FORM 3D MODEL
DENSITY 266FORWARD PROJECT 3D MODEL DENSITY TO FORM
PREDICTED PROJECTED DENSITY IMAGES 268

CALCULATE RATIO IMAGES 270

CALCULATE DIFFERENCE IMAGES 272

BACK-PROJECT RATIO IMAGES TO FORM 3D DENSITY
RATIO 274BACK-PROJECT DIFFERENCE IMAGES TO FORM
3D DENSITY DIFFERENCE 276TO STEP 278
OF
FIG. 13B

FIG. 13A

FROM
STEP 282
OF FIG. 13B

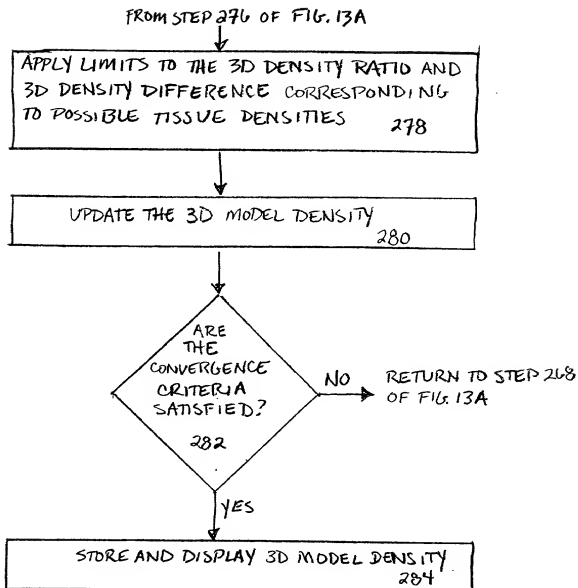


FIG. 13B

09781787-021201